

WHAT IS CLAIMED IS:

1. An information processor, comprising:
 - an imaging optical system,
 - an input unit, and
 - a display device, wherein:
 - said imaging optical system comprises:
 - an image pickup device placed in an image plane to pick up an image of an object;
 - an image-forming optical member disposed in front of said image pickup device;
 - said image-forming optical member including at least a second prism member and a first prism member;
 - said second prism member having at least:
 - a third entrance surface through which light rays emanating from the object and passing through said aperture stop enter said second prism member; and
 - a third exit surface through which the light rays exit said second prism member;
 - wherein said third entrance surface and said third exit surface are disposed to face each other across a second prism medium;
 - said first prism member having at least:
 - a fourth entrance surface through which the light rays exiting from said second prism member enter said first prism member;
 - reflecting surface reflecting the light rays within said first prism member; and
 - fourth exit surface through which the light rays exit said first prism member;
 - wherein said fourth entrance surface, said reflecting surface and said fourth exit surface are disposed to face each other across a first prism medium;
 - said second prism member and said first prism

member being cemented together with a holographic element interposed between said third exit surface and said fourth entrance surface;

wherein said reflecting surface of said first prism member is a concave surface that gives a positive power to the light rays when reflecting them; and

wherein said third exit surface and said fourth entrance surface are each formed from a plane surface or a cylindrical surface.

2. An information processor, comprising:

an imaging optical system,

an input unit, and

a display device, wherein:

said imaging optical system comprises an image pickup optical system comprising:

an image pickup device placed in an image plane to pick up an image of an object;

an image-forming optical member disposed in front of said image pickup device;

said image-forming optical member including at least a second prism member and a first prism member;

said second prism member having at least:

a third entrance surface through which light rays emanating from the object and passing through said aperture stop enter said second prism member; and

a third exit surface through which the light rays exit said second prism member;

wherein said third entrance surface and said third exit surface are disposed to face each other across a second prism medium;

said first prism member having at least:

a fourth entrance surface through which the light rays exiting from said second prism member enter said first prism member;

reflecting surface reflecting the light rays within said first prism member; and

fourth exit surface through which the light rays exit said first prism member;

wherein said fourth entrance surface, said reflecting surface and said fourth exit surface are disposed to face each other across a first prism medium;

said second prism member and said first prism member being cemented together with a holographic element interposed between said third exit surface and said fourth entrance surface;

wherein said reflecting surface of said first prism member is a concave surface that gives a positive power to the light rays when reflecting them; and

wherein said third exit surface and said fourth entrance surface are each formed from a spherical surface or a toric surface satisfying the following conditions:

$$-2.0 < D_a/R_a < 2.0 \quad \dots (2)$$

$$-0.05 < D_b/R_b < 0.05 \quad \dots (3)$$

where R_a and D_a are a curvature radius and an outer diameter of the surface in a direction of an axis where the surface has a larger curvature, and R_b and D_b are a curvature radius and an outer diameter of the surface in a direction of an axis where the surface has a smaller curvature.

3. The information processor according to claim 1, wherein said information processor is a computer which further comprises a microphone and a speaker.

4. The information processor according to claim 2, wherein said information processor is a computer which further comprises a microphone and a speaker.

5. The information processor according to claim 1, wherein said information processor is a cellular phone which further comprises a microphone, a speaker and an antenna.

6. The information processor according to claim 2, wherein said information processor is a cellular phone which further comprises a microphone, a speaker and an antenna.